

*(Per ILA Approval Requirements)*

CA Approval

JB Approval

## REGIONAL FARE COORDINATION SYSTEM

### CHANGE ORDER NO. 32

**CONTRACTOR:** ERG Transit Systems (USA) Inc.  
**CONTRACT NUMBER:** 229944

This Change Order to Contract #229944 ("Change Order") is executed as of 6-12-08, by and between ERG Transit Systems (USA) Inc, a California corporation and wholly owned subsidiary of ERG Limited, an Australian corporation, (hereinafter referred to as the "Contractor") and each of the following seven public transportation agencies (hereinafter referred to individually as an "Agency" or collectively as the "Agencies"):

1. Central Puget Sound Regional Transit Authority ("Sound Transit")
2. King County ("King County")
3. Kitsap County Public Transportation Benefit Area ("Kitsap Transit")
4. Pierce County Public Transportation Benefit Area ("Pierce Transit")
5. Snohomish County Public Transportation Benefit Area ("Community Transit")
6. City of Everett ("Everett")
7. State of Washington, acting through the Washington State Department of Transportation, Washington State Ferries Division ("WSF")

#### Background

- A. Effective April 29, 2003, each of the Agencies and the Contractor entered into Contract #229944 ("Contract") to implement a Regional Fare Coordination System ("RFC System") to establish a common fare system utilizing smart card technology. The Contractor is responsible for the development, implementation, operation and maintenance of the RFC System as specified in the Contract.
- B. The Contract requires that the Contractor provide to the Agencies the software tools, interface specifications, documentation, information, training and other materials, as well as a certification process, that will enable the Agencies and their other contractors to create and install non-RFCS applications on, or interfacing with, the Driver Display Unit ("DDU") and modify the DDU user interface for such non-RFCS applications and interfaces.

C. King County ("the County") has entered into a separate contract for an On-Board Systems/Communications Center System (OBS/CCS) which will be integrated with the DDU in the "full integration mode" (FIM) described in Section 6.III-6.8 of the Contract. As provided by Section 6.III-6.8.1 of the Contract, the DDU shall support FIM. As provided by Section 6.III-6.8.5, the development of new non-RFCS applications on the DDU shall be subject to an agreed upon certification process.

D. As contemplated in Change Order 22, staff from the Contractor, the County, and the County's OBS/CCS contractor met to discuss the integration of the OBS/CCS functions with the current DDU. At the County's request, the Contractor has proposed that certain changes to the current DDU and Radio Control Unit (RCU) functionality will better enable the DDU to integrate with, and support, the OBS/CCS functions while not negatively affecting the DDU functionality required for the other Agencies.

E. The Agencies desire to enter into this Change Order No. 32 to authorize the Contractor to proceed with the design, development, testing and implementation of the changes to the DDU and RCU, and the other Work set forth herein, as necessary to provide the functionality described below.

## Agreements

The Agencies and the Contractor hereby agree to the following:

### **1.0 General**

In accordance with the Contract and this Change Order, the Contractor shall design, develop, test and implement changes to the DDU and RCU that provide the functionality described below in Section 2.0.

As set forth in Section 3.0, the Contractor shall provide training and technical support for the OBS/CCS vendor in its development of a non-RFCS application for the DDU and that application's integration with the Contractor's DDU and RCU applications.

As set forth in Section 4.0, the Contractor shall also provide a detailed plan and schedule for, and perform the work of, testing the modified DDU and RCU applications developed by the Contractor, testing the integration of said modifications with the application developed by the OBS/CCS vendor, certifying that all new or modified applications (both those developed by the Contractor and those developed by said OBS/CCS vendor for use with the DDU) do not adversely affect the operation of the RFCS, and releasing all of the new or modified applications into the RFCS Regional Test Bed (RTB) and then into the production environments.

As set forth in Section 5.0, the Contractor shall update the applicable design, training and certification process documents.

### **2.0 Changes to Division III**

2.1 Section 6.III-4.1 is amended to read as follows:

#### **6.III-4 On-Board Fare Transaction Processor (OBFTP)**

##### **6.III-4.1 Subsystem Description - OBFTP**

The Contractor shall provide On-Board Fare Transaction Processors (OBFTP) allowing fare cards to be read and encoded through the contactless interface during the fare payment process on-board Agency coaches. The OBFTP shall consist of a CPU for processing transactions, memory for storing fare tables and transaction records, customer display, and card reader (DR 102.05).

The OBFTP shall be capable of operating, when delivered, in a limited integration mode (LIM) or as a plug-n-play peripheral in full integration mode (FIM) on an on-board network to be provided by others. Initially, the Agencies expect to operate the OBFTPs with a limited degree of integration, and then migrate to a full integration mode when an on-board Vehicle Logic Unit (VLU) is developed and installed by others (see Section 6.III-5).

A flexible architecture for the OBFTP (DR 102.06) and DDU is required to allow each agency to migrate from the limited integration mode to the full integration mode at any time in the future and to accommodate on-board integration requirements and architectures that vary by Agency. The OBFTPs, when delivered, shall be capable of supporting the following two modes of operation, and shall be designed to allow migration from limited to full integration mode without hardware or operating/RFCS application software changes, except such hardware and software changes as necessary to achieve the objectives of Change Order No. 32.

The Ethernet switch will be installed as per Section 6.II-11.3 for the purpose of providing an environment that allows for developing a modular on board architecture as per contract clause 6.III-3.4.6. When installed, the Ethernet switch will function as the communications switch for all on-board system traffic for fare collection purposes. The Ethernet switch shall provide communications between the OBFTP, DDU, and VLU in full integration mode. The OBFTP and DDU, and VLU at an Agency's discretion, shall transfer data to the WDOLS via an Ethernet switch/High Speed serial interface when communicating on and off the vehicle in FIM.

#### **4.1.1 Limited Integration Mode (LIM)**

In the Limited Integration Mode, the OBFTP shall store transactions until communication with the WDOLS is established and data transfer can be completed. The OBFTP shall connect to other on-board devices as illustrated in Figures III-4.1 and III-4.2.

**Figure III-4.1 (KCM)**

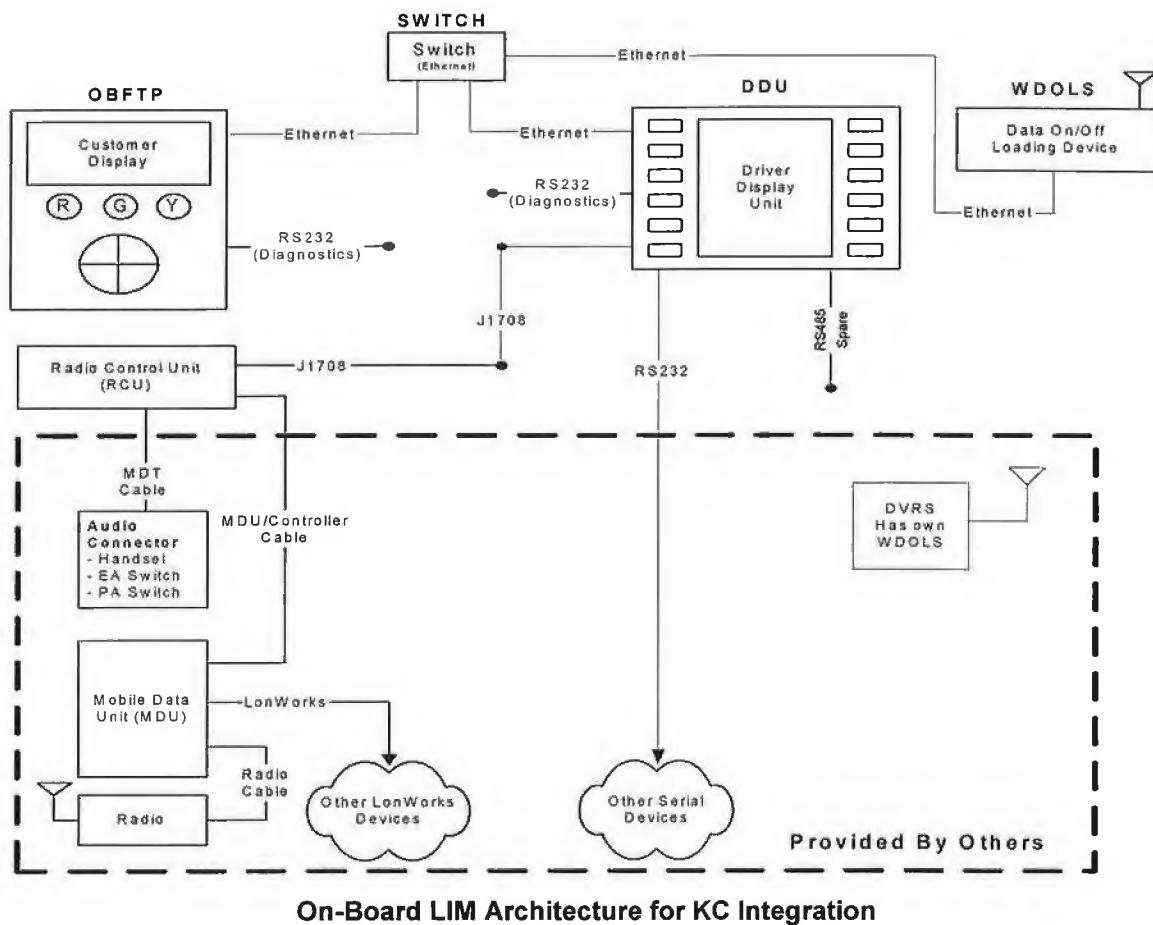


Figure III-4.2 identifies the module interfaces that apply to the Limited Integration Mode (LIM).

**Figure III-4.2  
MODULE INTERFACE SUMMARY - LIM**

Module	Ethernet Switch	Radio Control Unit	GFI Farebox (Option)
OBFTP	Ethernet/High Speed Serial	N/A	N/A
DDU	Ethernet/High Speed Serial	J1708	N/A
WDOLS	Ethernet/High Speed Serial	N/A	N/A
VLU	N/A	N/A	N/A

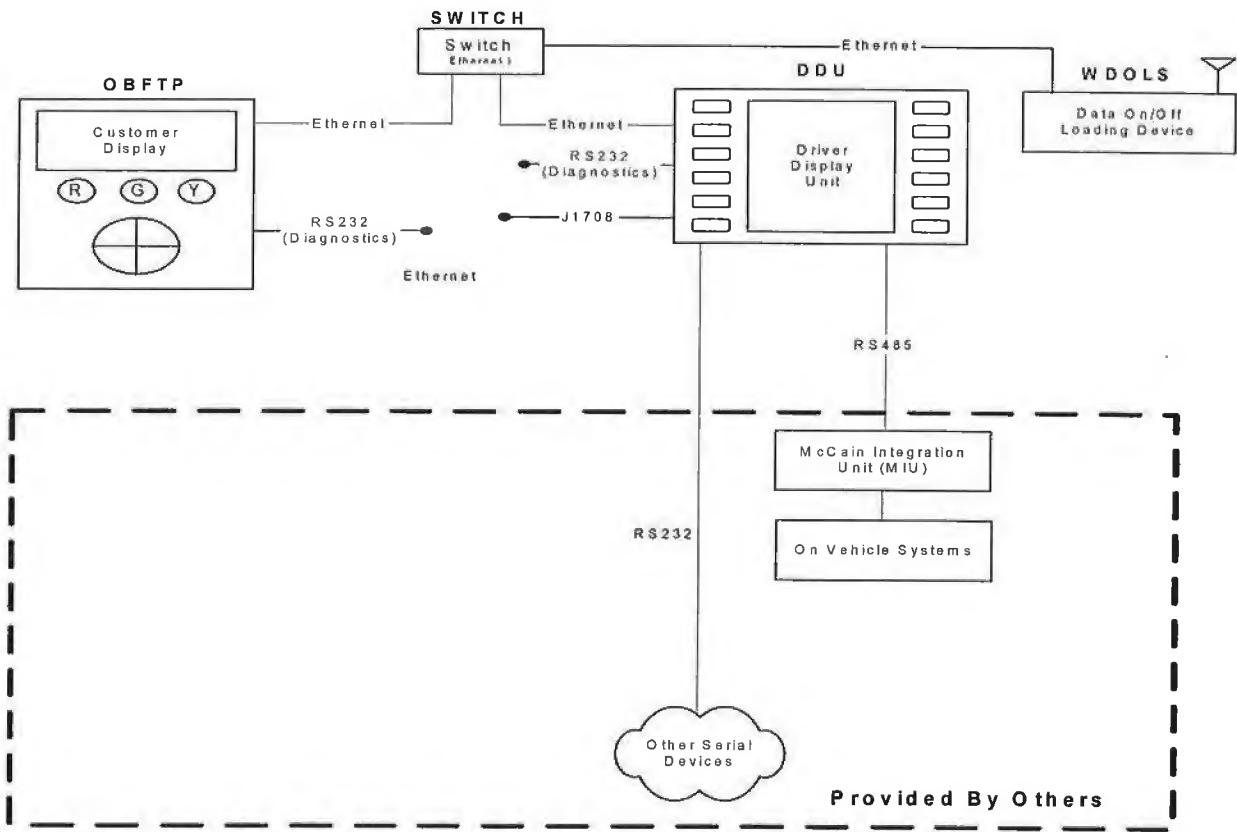
#### 4.1.2 Full Integration Mode (FIM) – King County

In the Full Integration Mode, the VLU, DDU and the OBFTP shall share the use of the WDOLS for coaches owned or operated by King County. When communication is established via the WDOLS, then the data transfers for each device will be handled in parallel until all are completed. The OBFTP, DDU and WDOLS shall be connected as illustrated in Figures III-4.3 and III-4.4.

The Ethernet switch shall act as the interface between the OBFTP, DDU and VLU. The VLU shall send data and information as described herein to the DDU. The DDU will share the information from the VLU with the (AFC Application) by use of the DDU Common Store. An Ethernet/High Speed Serial interface shall be used for on/off-loading data via the WDOLS. Data provided by the VLU will include the variables described in Section 6.III-6.8.4, including but not limited to: login data (route/run/trip), trip change prompts, fareset changes and, if the ERG option is exercised, Stop ID data. The AFC Application will update the Common Store variables needed by the OBS, including but not limited to: operator login and default trip fareset.

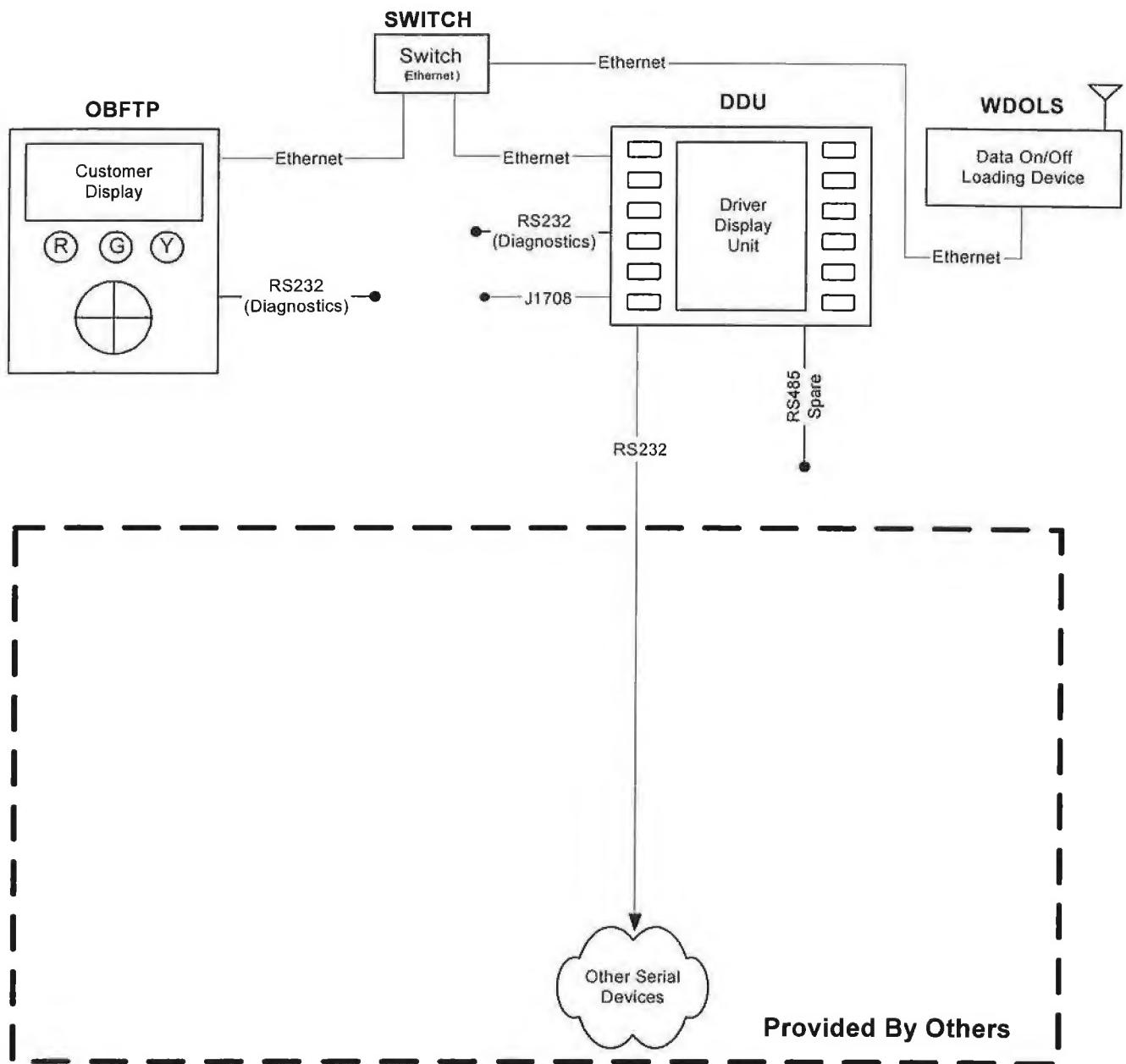
**Figure III - 4.3 (C T)**

**On-Board Architecture for CT Integration**



**Figure III - 4.3 (PT/ET/KT)**

**On-Board Architecture for PT, ET, and KT Integration**



**Figure III – 4.3 (KCM - revised by C.O. 32)**

**On-Board Architecture (FIM) for KCM Integration**

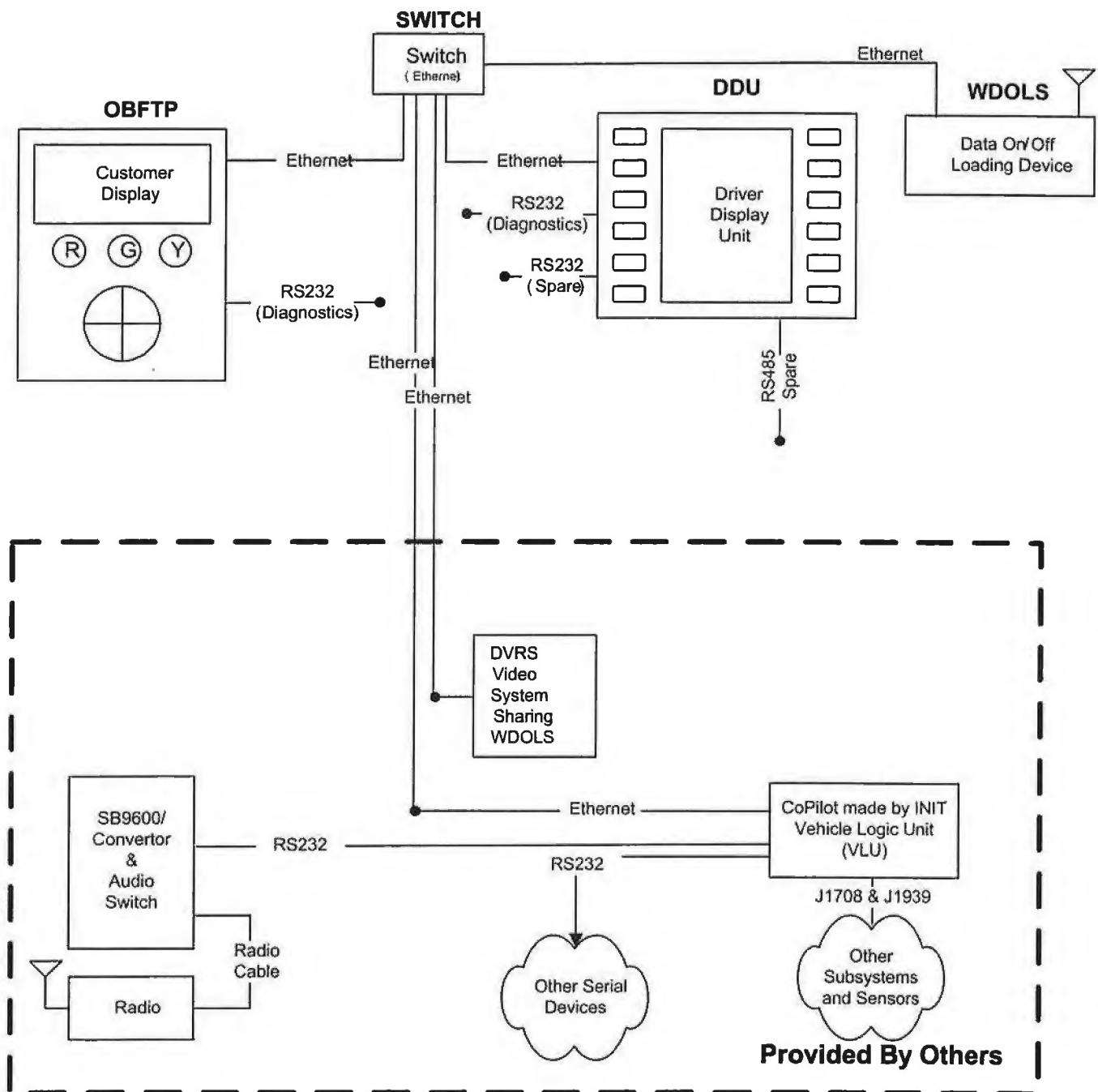


Figure III-4.4 identifies the module interfaces that apply to the Full Integration Mode (FIM). The Contractor may suggest alternative on-board configurations in addition to the configuration provided, subject to the review and approval of the Contract Administrator.

**Figure III-4.4**  
**MODULE INTERFACE SUMMARY – FIM**

Module	Ethernet Switch	Radio Control Unit	GFI Farebox (Option)
OBFTP	Ethernet/High Speed Serial	N/A	N/A
DDU	Ethernet/High Speed Serial	N/A	N/A
WDOLS	Ethernet/High Speed Serial	N/A	N/A
VLU	Ethernet/High Speed Serial	N/A	N/A

- 2.2 Section 6.III-6.8.5, "Application Certification," is renumbered Section 6.III-6.8.7.  
2.3 Section 6.III-6.8.5 shall read as follows:

### **6.8.5 King County Full Integration Mode (FIM)**

#### **6.8.5.1 General**

The Contractor shall provide applications, software, test elements, and testing for the integration of the Driver Display Unit (DDU) with the On-Board Systems (OBS) being developed by another vendor (OBS/CCS vendor). Such integration shall be implemented on King County coaches and Sound Transit coaches operated by King County (hereinafter collectively referred to as KCM coaches).

The DDU shall be modified to provide for two modes of operation:

1. Limited Integration Mode (LIM) representing the current (pre-OBS) condition and operations, as well as the current condition and operations of all other Agencies.
2. Full Integration Mode (FIM) representing King County on-board system operation when the OBS equipment is installed and operational.

Modifications to the DDU shall not adversely affect operation on the device on other (non-King County or Sound Transit coaches operated by others) coaches or services, or introduce additional steps or workload for the operators of those services.

As required in Section 6.III-6.8.1 and 6.8.3, the DDU will be integrated with the RCU and King County's existing on-board systems in limited integration mode (LIM) until all KCM coaches have new OBS and Transit Radio Systems installed. For FIM, the Contractor shall provide design, development and testing documentation, software tools and test apparatus, as agreed upon by the Parties , for the OBS/CCS vendor to develop a new on-board non-RFCS application ("OBS Application") that will reside on the KCM DDU platform and integrate with the VLU (Vehicle Logic Unit) being supplied by the OBS/CCS vendor.

The Contractor shall be responsible for development, modification, integration and testing of all RFCS software on the DDU, RCU and On-Board Fare Transaction Processor (OBFTP) as required to provide the functionality described herein, and maintain RFCS fare collection functionality and operations. All applicable devices in the KCM coaches shall be updated with new software containing the OBS Application and updated AFC and RCU applications as required to support both LIM and FIM functionality prior to the first phase of installation of OBS equipment.

For purposes of this Section, the following terms shall have the following meanings:

- a. Automatic Fare Collection (AFC) Application: Contractor-developed RFCS software that is necessary to meet the requirements of this Section, including on-board software related to the DDU and OBFTP, as well as any test and back office software that is created or revised to meet the requirements of this Section.
- b. DDU Monitor Application: Contractor-developed application to be provided to the OBS/CCS vendor for display of additional DDU Common Store variables and variable sets via diagnostic interface.
- c. OBS Application: the non-RFCS application to be developed by the OBS/CCS vendor and loaded onto the DDU, which will integrate with the Vehicle Logic Unit (VLU). The VLU, in turn, manages the OBS devices and interfaces, such as the new 700 MHz radio system.
- d. OBS Stub Application: Contractor-developed application to be deployed to all RFCS coaches to communicate configuration status to the AFC Application. LIM mode will be the default configuration until the OBS Application detects the presence of OBS equipment.
- e. RCU Application: Contractor-developed software required to operate the King County Radio Control Unit (RCU) and provide functionality described in 6.8.5.4 of this Change Order.

#### 6.8.5.2 DDU Monitor Application

The Contractor shall provide a DDU Monitor Application, which will be a development tool for displaying additional DDU Common Store variables and variable sets via a diagnostic interface.

#### 6.8.5.3 OBS Stub Application/Test Harness

- a. The Contractor shall develop an OBS Stub Application, the role of which is to communicate to the AFC Application, via the **FIMConfig** mechanism, described below, that LIM mode is enabled in the absence of OBS equipment. The Stub Application will be deployed to all RFCS Agency coaches as part of the revisions to the AFC Application prior to implementation of the OBS Application in order to confirm that changes to the AFC Application have not affected RFCS functionality. On coaches operated by King County, the OBS Stub Application will be replaced by the OBS Application once it is available and has been certified by the Contractor per the provisions of Section 4.0 of this Change Order.
- b. The Contractor shall provide a testing capability for OBS operations that affect the DDU. A set of test commands will be created via the DDU Monitor Application. These test commands will be limited to providing a mechanism to manually modify and validate the contents of the new variable sets added to the DDU Common Store in order to implement this Change Order.
- c. The OBS Stub Application may also be used as a development tool to provide simulation of various on-board operations to aid in the development of software for AFC Application integration.

#### 6.8.5.4 RCU Application

- a. Rather than duplicate a large number of existing DDU template resources, the OBS Application and RCU Application will share the appropriate existing template resources. The decision on which of these applications accesses the shared template resources is to be made by the OBS Application based on whether or not FIM mode is enabled.
- b. The Contractor shall modify the RCU Application to only access the existing template resource once LIM mode has been detected. In the case of FIM mode being detected, the

RCU Application shall be modified to behave in a passive manner to allow the OBS Application to gain access to the existing template resources and perform the desired FIM mode operations.

- c. The operation of the existing RCU Application shall be maintained for LIM until every KCM coach has been equipped for FIM.

#### 6.8.5.5 OBS Application and AFC Application Changes for FIM

##### Configuration

- a. The OBS Application shall be separate and distinct from the existing RCU Application that interfaces with the legacy KCM radio system. The operation of the existing RCU Application shall be maintained for LIM until every KCM vehicle has been equipped for FIM.
- b. The OBS Application shall be downloaded by the Contractor to the DDU prior to installation of OBS hardware per an agreed upon schedule. The OBS Application will detect the presence (FIM mode) or absence (LIM mode) of OBS hardware. The OBS Application will provide integration status to the DDU and AFC applications which shall self-configure accordingly without the need for driver input or action.
- c. The OBS Application will notify the AFC Applications of the integration state (either LIM or FIM) so that operations with legacy radio equipment via the RCU Application can be maintained until the deployment of OBS hardware on each vehicle. The Contractor shall provide a mechanism via the DDU Common Store that allows the OBS Application to communicate this information to the AFC applications. This mechanism shall be referred to as **FIMConfig**.

##### Login Process

- d. From the user viewpoint the login screens and process will appear the same in LIM and FIM. For FIM, the login process will be shared between the AFC and OBS Applications. The AFC Application will continue to manage Operator login and validation. The AFC Application will provide the Operator login data and status to the OBS via the DDU Common Store.
- e. The OBS Application shall take over the responsibility of managing route/run entry and trip selection and will also be responsible for the communication of the resulting trip login information to the AFC Application. To support this requirement, the Contractor shall provide a mechanism via the AFC Application, using the DDU Common Store that allows the OBS Application to communicate login information to the AFC application as required. This mechanism will be referred to as **FIMTripInfo**.
- f. An agency-defined, unique Trip ID will be provided by KCM to the OBS and RFCS devices. Across a year's three major service changes and the bi-weekly Configuration Data (CD) distributions, these Trip IDs will not be re-used. Also, for the life of a major service change, a Trip ID will always refer to the same trip. These two conditions are required to avoid undetected mismatches in datasets between the two systems. The Contractor shall modify CD formats to allow such agency Trip ID to be delivered to the DDU/OBFTP

##### Automatic Next Trip Selection

- g. To support the OBS-Initiated route/run/trip selection requirement, the Contractor shall provide functionality to enable the implementation of the following sequence of events while in FIM mode:
  1. At a point in time just prior to reaching the end of trip location, the OBS Application shall direct the DDU to display a message in its VLS window asking

- the driver to confirm the change to the next trip, and also display the "Start Next Trip" icon for the driver to press the associated key to trigger this confirmation.
2. After the Operator presses the "Next Trip" button, the OBS Application shall notify the AFC Application of the change to the next trip via the **FIMTripInfo** mechanism.
  3. The AFC Application shall validate the trip information provided by the OBS Application. If an error occurs, an error message shall be returned to the OBS Application via the **FIMResult** mechanism. If successful, the AFC Application shall complete the change to the next trip, communicate the appropriate information as positive feedback to the OBS Application and set the AFC device mode to "On-Trip."
  4. New trip and fare information shall be displayed on the DDU.

#### Automatic Fare Change at Zone Boundaries

- h. To support the OBS-Initiated fare change requirement, the Contractor shall provide functionality to enable the implementation of the following sequence of events while in FIM mode:
  1. The AFC CD will set the default fare table and initial Distance Code at the start of each trip. The fare table defines the range of fare alternatives that are possible for the selected trip.
  2. The Contractor shall provide functionality for the OBS Application to communicate a desired fare change to the OBFTP based on the vehicle's location. This mechanism will be referred to as **FIMFareset**.
  3. The Contractor shall provide functionality for the AFC Application to communicate to the OBS Application whether or not the driver has manually changed the current default fare since the start of the current trip. This mechanism will be referred to as **FIMStatus**.
  4. The Contractor shall provide for the AFC Application to communicate to the OBS Application whether any OBS-communicated fare set change was successful or unsuccessful and return the result as **FIMResult**.
  5. If the AFC Application is on-trip and it receives a request by the OBS Application to change the current default Distance Code via the **FIMFareset** mechanism, and the driver has NOT manually changed the current distance code since the start of the current trip, then the AFC Application shall:
    - o Automatically change the current default fare in use by the AFC Application, and
    - o Notify the OBS Application that the request was successful via the **FIMResult** mechanism.
  6. If the AFC Application is on-trip and it receives a request by the OBS Application to change the current default fare via the **FIMFareset** mechanism, and the driver has manually changed the current fare since the start of the current trip, then the AFC Application shall:
    - o notify the OBS Application that the request was unsuccessful via the **FIMResult** mechanism.
  7. When the driver manually changes the default fare on the AFC Application via the Change Fare function, the AFC Application shall notify the OBS Application of this via the **FIMStatus** mechanism.
  8. The Initial Trip Distance Code, fare table(s) and peak/off peak designator, will come from RFCS CD as exported by KCM. The default fare can be overridden

- by the driver and the driver will retain the ability to manually select from the available fare tables for the trip.
9. OBS initiated fareset changes will be limited to the valid distance codes in the AFC designated default fare table.
  10. The OBS Application shall not include functionality to automatically set or change the fare table as part of the fareset change.
  11. When the Operator begins a new trip the AFC Application will reset the default fare table and Distance Code for that trip.

#### **6.8.5.6 CCS Initiated Changes**

- a. While operator login/logout will still generally be performed by the existing DDU applications, the OBS Application also will be able to automatically initiate an operator login/logout or update certain login-related parameters such as route/run/trip selection. Such commands will be issued by the OBS based on instructions sent from the Communications Center System (CCS) by a Communications Coordinator (dispatcher). Such operation shall be referred to as a "CCS-Initiated" login/logout or login parameter change (route/run/trip). To support this requirement, the Contractor shall provide functionality in the AFC Application (using the DDU Common Store) to allow the OBS Application to communicate operator login, operator logoff to the AFC Applications via the **FIMLogon** mechanism, and/or route/run/trip selection to the AFC Applications via the **FIMTripInfo** mechanism. When a Coordinator using the Communications Center System (CCS) provides the OBS Application with an operator ID to log in, a password is not required.
- b. The Contractor shall provide functionality in the AFC application (using the DDU Common Store) to communicate the result of CCS-initiated Operator login/logout and/or route/run/trip selection back to the OBS Application via the **FIMResult** mechanism.
- c. To support the CCS-Initiated operator login requirement, the Contractor shall provide functionality to enable the implementation of the following sequence of events while in FIM mode:
  1. The OBS Application shall communicate the required information via the **FIMLogon** mechanism as specified above.
  2. The AFC Application shall validate the information provided by the OBS Application as required for fare collection operation.
  3. If a validation error occurs, an error message shall be returned to the OBS Application via the **FIMResult** mechanism. If successful, the AFC Application shall complete the login process, communicate the appropriate information as positive feedback to the OBS Application and set the DDU/OBFTP device Mode to "Off-Trip."
  4. The OBS Application shall determine whether or not to display Route/Run Entry and Trip Selection screens before triggering a route/run/trip change.
- d. To support the CCS-Initiated operator logoff requirement, the Contractor shall provide functionality to enable the implementation of the following sequence of events while in FIM mode:
  1. The OBS Application shall communicate the required information via the **FIMLogon** mechanism.
  2. If an error occurs with logoff, an error message shall be returned to the OBS Application via the **FIMResult** mechanism. If successful, the AFC Application shall

complete the logoff, communicate the appropriate information as positive feedback to the OBS Application, and set the DDU/OBFTP device mode to "Login."

3. The AFC Application shall display the normal login screen sequence.

#### 6.8.5.7 Display of Debugging/Maintenance Variables

The Contractor shall provide a mechanism via the DDU Common Store for the OBS Application to display a set of 10 variables for debugging/maintenance purposes. The values of these variables shall be provided via the DDU's diagnostic port. The OBS/CCS vendor will be responsible for providing a list of such variables and their descriptions.

### 3.0 Training and Technical Support

- 3.1 The Contractor shall provide training and technical support to the OBS/CCS vendor as needed to enable the following work:
  - a. design of the template resources required for the development of the OBS Application; and
  - b. development of the OBS Application.
- 3.2 Such training and technical support shall be provided on an as-needed basis by telephone or email. In addition, the Contractor agrees to provide the following on-site support:
  - a. Contractor's software engineer will travel to the OBS/CCS vendor's facility in Germany for a 1-week period to provide on-site technical support to INIT in its development efforts;
  - b. Contractor's software engineer will travel to the OBS/CCS vendor's facility in Germany for a 1-week period to assist in the integration of the OBS Application with the DDU/OBFTP; and
  - c. Contractor's test engineer will travel to Seattle for a 4-week period to observe and participate in the RTB and field testing of the modified AFC Application, RCU Application and the OBS Application.
- 3.3 The Contractor shall participate in KCM's Technical Interface Committee (TIC) if requested. TIC sessions will be conducted remotely via teleconference or locally when Contractor is already providing on-site support in Seattle.
  - a. All parties are required to provide support for the integration of the DDU/OBFTP and the OBS Application as detailed herein. The technical relationship between the two projects requires both the contractors to be willing and able to work openly and collaboratively with one another without prejudice or bias regardless of historical relationships. To this end, the Contractor shall work cooperatively with the OBS/CCS contractor, within the scope of this agreement, as directed by the KCM Project Manager.
  - b. The purpose of the TIC will be to address and successfully resolve integration and interface issues between the Regional Fare Coordination System and the On-Board Systems/Communications Center System. In this forum, facilitated by KCM staff, the Contractor and the OBS/CCS vendor shall exchange information and resolve issues related to the definition and development of their required interfaces, interface documentation, and interface test plans.
  - c. The TIC will not necessarily address and does not relieve the Contractor and the OBS/CCS vendor of their responsibilities to provide other integration and interface deliverables such as attending design review meetings; providing interface control documents, equipment prototypes and production units; coordinating installation; and meeting testing requirements.

## **4.0 Design Review, Testing and Certification Plan**

- 4.1 The Contractor shall prepare a detailed written Plan for the design review, testing and Certification of the AFC, RCU, DDU Monitor, OBS Stub, and OBS Applications as specified in this Change Order No. 32, whether new or modified in accordance with Contract Division III, Section 6.8.5 At a minimum, the Design Review, Testing and Certification Plan shall provide for the following:
- Step One: Design Review and Approval (by Contractor and Agencies)
- Step Two: Development and Testing in Development Environment (FAT and SIT)
- Step Three: Pre-Release Testing in Contractor's Seattle Regional Test Bed (RTB)
- Step Four: Installation and field testing on sample KCM vehicles
- 4.2 The description of each step shall include all applicable testing strategies, plans, test equipment, scripts, duration, performance measures, location and schedule information. The description shall be submitted to the Contract Administrator, the KCM OBS/CCS Project Manager and the OBS/CCS vendor, subject to the review and approval of the Agencies in accordance with Contract Section 3.I-27.5.
- 4.3 For each step, a NAC must be issued for all of the work tasks identified in the plan before moving to the next step. Final Acceptance shall be conditioned on KCM's use of the new AFC Application, RCU Application and OBS Application in revenue service on a minimum of 100 coaches for at least 120 calendar days without experiencing any Severity 1 or severity 2 issues. ERG shall be responsible for Severity issues related to the AFC and RCU Applications. The County's OBS/CCS contractor shall be responsible for Severity issues related to the OBS Application.

## **5.0 Documentation Updates**

- 5.1 The Contractor shall modify all applicable design documents to reflect the changes that are made to the DDU, OBFTP and RCU designs, prior to issuance of a NAC for Final Acceptance of the work of this Change Order.
- 5.2 The Contractor shall review and provide corrective comments on the revised KCM DDU user guides and training materials supplied by the OBS/CCS vendor. Contractor's responsibility for review and corrective comments on materials supplied by the OBS/CCS vendor shall be limited to references to and descriptions of Contractor supplied solutions under this Change Order.
- 5.3 The Contractor shall update, provide more details and otherwise modify its description of the certification process for non-RFCS applications to incorporate lessons learned from the process used under this Change Order. The Parties agree this will be provided at no additional charge to satisfy the base Contract Section 6.III-6-8.7.
- 5.4 All documentation updates shall be submitted for review and approval to the Contract Administrator and the KCM OBS/CCS Project Manager, subject to the review and approval of the Agencies in accordance with Contract Section 3.I-27.5.

## **6.0 Schedule**

Contractor shall coordinate with the OBS/CCS contractor to provide a detailed schedule of the tasks and document delivery dates related to this Change Order that is consistent with the "no later than" dates specified below. Said detailed schedule shall be submitted within fifteen (15) working days after receipt of this executed Change Order and shall be submitted to the Contract Administrator and the KCM OBS/CCS Project Manager, subject to review and approval by the Agencies in accordance with

the process under Sec. 3.I-27.5. No changes may be made to the schedule without the written approval of the parties.

## 7.0 Deliverables, Milestones and Payments

7.1 The Deliverables and other Work under this Change Order shall be provided by the Contractor according to four milestones and shall be reviewed in accordance with the provisions of the Contract including but not limited to Section 3.I-27.5 and 3.I-27.6.

### 7.2 Milestone 1: Design Review and Approval (Plan Step 1)

7.2.1 The following tasks/deliverables shall be completed in accordance with the requirements not later than December 1, 2008

- 1-A: Specific Plan for FIM Design, Testing and Certification: The Contractor shall submit a plan to complete all work as described in Section 4.0 above, the test scripts, the schedule, and process steps for distributing the new CD, applications and updates to the test vehicles, and the method and duration of testing. Such plan shall be submitted to the Contract Administrator within fifteen (15) working days of issuance of this Change Order for review and approval by the KCM OBS/CCS Project Manager and the OBS/CCS vendor.
- 1-B: Review of Contractor's Design: The Contractor shall make all necessary updates all applicable design documents to reflect the FIM design changes to the AFC Application and RCU Application and the development of the OBS Stub and DDU Monitor Applications, as more fully described in Section 2.0 of this Change Order, including but not limited to the following:
- Documentation components of the DDU Software Development Kit (SDK) including:
    - Win CE .NET 5.0 SDK – The SDK for the DDU's particular build of Win CE
    - RCU Source Code – The source code for the current RCU application, which can be used as an example to the help aid 3rd party developers.
    - Software Libraries and Header Files – The Header files define the Application Programmers Interface (API) available to the 3rd Party programmer to interface with the DDU's executive application suite. The software libraries include the executable code for the executive suite and device drivers.
    - IDC – Integrated Development Center is a graphical tool used to create and modify screens, templates and key assignments for the DDU graphical interface.
    - IDC Users manual – The users guide for the IDC.
    - GenAppaCE – A utility used to generate application upgrade files used during the automatic upgrades of in-field devices.
    - DPG-00393 Guidelines for Third-Party Integrators – Developers Manual describing the DDU and its development environment from a high level. This document also covers the API's for the executive applications.
    - SEA-02123 DC5000 Guidelines for Third-Party Integrators (KCM Specifics) - Developers manual that describes the RCU application in detail
    - DPG-00711 DC5000 Device Driver API Specification – The developer's manual describing the interface to the device drivers.
    - SEA-01064 On-Board Equipment Icon Library - a catalogue of existing icons and graphics as used by the DDU.

- SEA-03026 DDU Compliance Form – A form to be filled out and returned with an application that is ready for certification.
- Affected DR documents (including but not limited to screenflows) and the following:
  - SEA-01048 Driver Display Unit (DR 103B) - Functional Specification
  - SEA-01050 Fare Transaction Processor (DR 102B) - Functional Specification
  - SEA-00241 Radio Control Unit (DR103.06)

The updated documents shall be submitted to the Contract Administrator within forty-five calendar days after issuance of this Change Order, for review and approval of the KCM OBS/CCS Project Manager.

- 1-C Review of OBS/CCS Vendor's Design:** The Contractor shall review and provide comments on the design documents for the OBS Application as submitted by the OBS/CCS vendor currently scheduled for October 1, 2008. No later than fifteen (15) working days after receipt of said design documentation, the Contractor shall provide a written statement to the Contract Administrator, the KCM OBS/CCS Project Manager and the OBS/CCS vendor either certifying the design as acceptable or providing a detailed explanation of what must be changed and how the OBS/CCS vendor must address any omissions, errors, deficiencies or other problems to obtain the Contractor's certification.

**7.2.2 Upon completion in accordance with the requirements of the Work of Milestone 1: Design Review, the Contractor shall submit a written notice as provided in Contract section 3.I-27.6 to the Contract Administrator for review by the KCM OBS/CCS Project Manager. Issuance of a NAC shall be subject to the terms of Contract Section 3.I-27.6. Upon issuance of a NAC for Milestone One, the Contractor may submit an invoice for 30% of the total price due for this work under Section 8.2 below and any pre-approved travel expenses in accordance with Section 8.3 below.**

### **7.3 Milestone 2: Development and FAT/SIT Testing (Plan Step 2)**

**7.3.1 The following tasks/deliverables shall be completed in accordance with the requirements not later than March 1, 2009.**

- 2-A: Contractor Development Work:** The Contractor shall complete development of the modified AFC and RCU Application as well as the OBS Stub and DDU Monitor Applications in accordance with the design NAC'd in Milestone 1: Design Review or any modifications to the design as subsequently approved in writing by the Contract Administrator.

Contractor shall support the OBS/CCS vendor development effort and, if required, provide modifications to the DDU SDK materials as soon as they are identified.

- 2-B: Factory Acceptance Testing and Systems Integration Testing:** The Contractor shall work with the OBS/CCS vendor at Contractor's facility in Perth, Australia to conduct FAT and SIT of their respective software elements implementing the FIM design, including but not limited to:

- a. Bench testing of the FIM DDU screens and functionality
- b. Integrated operation of the AFC, DDU and OBS
- c. End-to-end testing of the RFCS data flow: KCM > Clearing House > BOC > DAC > DDU and OBS/CCS data flow: KCM > MOBILEplan > VLU.

The Parties agree that KCM representatives may witness any testing. No later than fifteen (15) working days after the FAT and SIT test periods, respectively, the Contractor shall provide a FAT report and a SIT report to the Contract Administrator, OBS/CCS Project Manager and the OBS/CCS vendor. Each report shall include: raw data collected and a summary and analysis of the results. Each report shall either certify that the test

was successfully completed or provide a detailed explanation of what must be changed and a plan for how the Contractor and the OBS/CCS vendor will address any omissions, errors, deficiencies or other problems in order to successfully complete the test. The Contractor shall repeat the FAT and SIT as necessary until each has been successfully completed in accordance with the requirements.

**2-C: Updated Release and Test Plans:** The Contractor shall submit updated Plans for Steps 3 through 4 to the Contract Administrator, for review and approval by the KCM OBS/CCS Project Manager and review and coordination with the OBS/CCS vendor. The final plans for each step shall include test scripts, a detailed description of the process for releasing the Contractor's AFC, Stub, DDU Monitor and RCU Applications, and the OBS Application, to all applicable DAC's and coaches in the RFCS, including all steps leading up to loading the applicable revisions onto DDU's on all of the Agencies coaches across the region. The plan shall also describe the process for coordinating CD updates with OBS data updates to ensure consistent data sets are maintained per this change order to the RFCS Contract section 6-III 6.8.5.5 (f).

7.3.2 Upon satisfactory completion of the Work of Milestone 2: Development and FAT/SIT Testing, the Contractor shall submit a written notice as provided in Contract section 3.I-27.6 for review by the Contract Administrator and the KCM OBS/CCS Project Manager. Issuance of a NAC shall be subject to the terms of Contract Section 3.I-27.6. Upon issuance of a NAC for Milestone Two, the Contractor may submit an invoice for 30% of the total price due for this work under Section 8.2 below and any pre-approved travel expenses in accordance with Section 8.3 below.

#### 7.4 Milestone 3: Installation & Testing (Plan Steps 3-4)

7.4.1 The following tasks/deliverables shall be completed not later than August 1, 2009 in accordance with the agreed upon schedule and requirements.

**3-A: Release to RTB:** The Contractor shall deliver to the RTB the modified AFC Application and RCU Application, new OBS Stub and DDU Monitor Applications and the OBS Application for testing by the Agencies, including but not limited to:

- a. Bench testing of the FIM screens and functionality
- b. Integrated operation of the AFC, DDU and OBS
- c. End-to-end simulation of the RFCS data flow: KCM > Clearing House > BOC > DAC > DDU and OBS data flow: KCM > MOBILEplan > VLU.

No later than fifteen (15) working days after the RTB test period, the Contractor shall provide an RTB report to the Contract Administrator, OBS/CCS Project Manager and the OBS/CCS vendor. The report shall include: raw data collected and a summary and analysis of the results. The report shall either certify that the RTB testing was successfully completed or provide a detailed explanation of what must be changed and a plan for how the Contractor and the OBS/CCS vendor will address any omissions, errors, deficiencies or other problems in order to complete the RTB testing in accordance with the Certification Plan.

**3-B Field Test:** The Contractor shall release FIM applications and data for limited distribution to the KCM selected field test coaches. Up to five revenue vehicles will be equipped with OBS/CCS & TRS systems. Testing of FIM shall be conducted in accordance with the approved Plan for Step 4, and including testing as a part of the OBS/CCS vendor's installation prototyping and field testing activities. The County shall be responsible for providing all necessary test scripts and conducting the Field Test.

7.4.2 Upon satisfactory completion of the Work of Milestone 3: RTB Testing, Installation & Field Testing (Plan Steps 3-4), the Contractor shall submit a written notice as provided in Contract

section 3.I-27.6 for review by the Contract Administrator and the KCM OBS/CCS Project Manager. Issuance of a NAC shall be subject to the terms of Contract Section 3.I-27.6. Upon issuance of a NAC for Milestone Three, the Contractor may submit an invoice for 30% of the total price due for this work under Section 8.2 below and any pre-approved travel expenses in accordance with Section 8.3 below.

## 7.5 Milestone 4: Acceptance Testing and Final Documents

### 7.5.1 The following tasks/deliverables shall be completed in accordance with the requirements not later than April 1, 2010.

**4-A: Acceptance Testing:** The Contractor shall release all FIM applications and data to the BOC>DAC for distribution to the all KCM coaches and the Stub Application to all other Agency coaches. Acceptance testing of the FIM designs shall be conducted in accordance with Section 4.3 above and the approved Design Review and Testing Plan, including but not limited to testing as a part of the OBS/CCS vendor's pilot testing activities.

No later than fifteen (15) working days after the Acceptance Test period provided in Section 4.3 above, the Contractor shall provide a report to the Contract Administrator, OBS/CCS Project Manager and the OBS/CCS vendor. The report shall include: raw data collected and a summary and analysis of the results. The report shall either certify that the acceptance testing was successfully completed or provide a detailed explanation of what must be changed and a plan for how the Contractor and the OBS/CCS vendor will address any omissions, errors, deficiencies or other problems in order to successfully complete the acceptance testing. The Acceptance Testing period shall be continued until the criteria in Section 4.3 have been satisfied.

**4-B Revisions to Certification Process:** The Contractor shall modify the Non-RFCS\_Application Certification Process document incorporating "lessons learned" through certifying the OBS Application and addressing comments from the Contract Administrator and the KCM OBS/CCS Project Manager.

**4-C Software Updates:** The Contractor shall provide revised, tested software modifications that resolve all issues, bugs or faults identified.

**4-D Documentation Updates:** The Contractor shall make all necessary updates to the applicable design documents, including those listed in Section 7.2.1, 1-B, to reflect any changes made during the testing and certification process.

The updated documents shall be submitted for review and approval to the Contract Administrator, the KCM OBS/CCS Project Manager and the OBS/CCS vendor.

### 7.5.2 Upon satisfactory completion of the Work of Milestone 4: Acceptance Testing and Final Documents, the Contractor shall submit a written notice as provided in Contract section 3.I-27.6 for review by the Contract Administrator and the KCM OBS/CCS Project Manager. Issuance of a NAC shall be subject to the terms of Contract Section 3.I-27.6. Upon issuance of a NAC for Milestone 4, the Contractor may submit an invoice for the remaining 10% of the total price due for this work under Section 8.2 below and any pre-approved travel expenses in accordance with Section 8.3 below.

## 8.0 Compensation

### 8.1 The Contractor's full additional compensation for performing any and all Work required under this Change Order shall be the fixed compensation (as provided in Section 8.2) plus reimbursement of eligible travel expenses (as described in Sec. 8.3)

### 8.2 Exhibit 9, Price Schedule, is hereby amended without further execution as provided in Amendment 28, attached hereto as "Change Order No. 32-Attachment A", to add a new Section XX to provide the fixed compensation due for all the Work of this Change Order. This

additional compensation is agreed upon by the Parties in the interest of avoiding disputes, including disputes over the number of hours, the rates applied and whether certain types of hours are compensable. The Parties have agreed, without any admissions or concessions but in the interests of compromise and settlement, that the above amount is the full amount due for any and all Work added by this Change Order. Provided, however, the Parties further agree that this compromise and settlement does not apply to, and shall not be construed as a controlling precedent for any subsequent Change Orders.

**8.3** The Contractor shall be eligible for reimbursement of travel expenses for the following trips:

1. Allowance for one software engineer to travel to Germany for 1 week to provide face-to-face technical support to the OBS/CCS vendor in its development efforts.
2. Allowance for one software engineer to travel to Germany for 1 week to assist the OBS/CCS vendor in integrating the OBS Application with the AFC Application.
3. Allowance for one test engineer to travel to Seattle for 4 weeks to observe and participate in the RTB and other testing and certification of the OBS Application.

Travel hours are not compensable but travel expenses shall be reimbursed by the County to the extent the travel was only required to perform the work of this Change Order and was approved in advance by the OBS/CCS Project Manager. Travel expenses incurred for the above three purposes will only be eligible for reimbursement in accordance with limits specified in Contract Exhibit 9, Section I (A)(1)(c); and shall not exceed the total maximum of \$19,000.

**9.0 Other Terms and Conditions**

Except as expressly amended by this Change Order, the Contract remains in full force and effect. All other provisions of the Contract not referenced in this Change Order 32 shall remain in effect unless modified in other executed Amendments and Change Orders.

IN WITNESS WHEREOF, the parties hereto have executed this Change Order No.32 to Contract #229944 as of the date set forth below its signature.

**ERG Transit Systems (USA) Inc.**

By: John  
Its: Vice President  
Date: 05/14/2008

**The Agencies**

By: \_\_\_\_\_  
Their: \_\_\_\_\_  
On behalf of the Agencies  
Date: \_\_\_\_\_

**Central Puget Sound Regional Transit Authority**

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

**City of Everett**

By: \_\_\_\_\_  
Ray Stephanson, Mayor, or His Designee  
Date: \_\_\_\_\_

**King County**

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

**ATTEST:**

By: \_\_\_\_\_  
Sharon Marks, City Clerk  
Date: \_\_\_\_\_

**APPROVED AS TO FORM:**

By: \_\_\_\_\_  
Everett City Attorney  
Date: \_\_\_\_\_

**Pierce County Public Transportation Benefit Area**

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

**Kitsap County Public Transportation Benefit Area**

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

**Washington State Ferries, Washington State Department of Transportation**

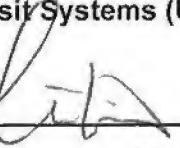
By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

**Snohomish County Public Transportation Benefit Area**

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

IN WITNESS WHEREOF, the parties hereto have executed this Change Order No.32 to Contract #229944 as of the date set forth below its signature.

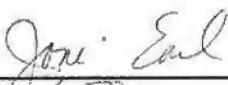
ERG Transit Systems (USA) Inc.

By:   
Its: Vice President  
Date: 05/14/2008

The Agencies

By: \_\_\_\_\_  
Their: \_\_\_\_\_  
On behalf of the Agencies  
Date: \_\_\_\_\_

Central Puget Sound Regional Transit Authority

By:   
Its: CEO  
Date: 6.2.08

City of Everett

By: \_\_\_\_\_  
Ray Stephanson, Mayor, or His Designee  
Date: \_\_\_\_\_

King County

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

ATTEST:

By: \_\_\_\_\_  
Sharon Marks, City Clerk  
Date: \_\_\_\_\_

APPROVED AS TO FORM:

By: \_\_\_\_\_  
Everett City Attorney  
Date: \_\_\_\_\_

Pierce County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Kitsap County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Washington State Ferries, Washington State Department of Transportation

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Snohomish County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

IN WITNESS WHEREOF, the parties hereto have executed this Change Order No.32 to Contract #229944 as of the date set forth below its signature.

ERG Transit Systems (USA) Inc.

By: Lita  
Its: Vice President  
Date: 05/14/2008

The Agencies

By: \_\_\_\_\_  
Their: \_\_\_\_\_  
On behalf of the Agencies  
Date: \_\_\_\_\_

Central Puget Sound Regional Transit Authority

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

City of Everett

By: \_\_\_\_\_  
Ray Stephanson, Mayor, or His Designee  
Date: \_\_\_\_\_

King County

By: M. Sonner  
Its: SM  
Date: 5/28/08

ATTEST:

By: \_\_\_\_\_  
Sharon Marks, City Clerk  
Date: \_\_\_\_\_

APPROVED AS TO FORM:

By: \_\_\_\_\_  
Everett City Attorney  
Date: \_\_\_\_\_

Pierce County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Kitsap County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Washington State Ferries, Washington State Department of Transportation

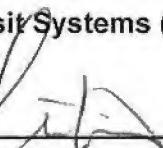
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Date: \_\_\_\_\_

Snohomish County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

IN WITNESS WHEREOF, the parties hereto have executed this Change Order No.32 to Contract #229944 as of the date set forth below its signature.

ERG Transit Systems (USA) Inc.

By:   
Its: Vice President  
Date: 05/14/2008

The Agencies

By: \_\_\_\_\_  
Their: \_\_\_\_\_  
On behalf of the Agencies  
Date: \_\_\_\_\_

Central Puget Sound Regional Transit Authority

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

City of Everett

By: \_\_\_\_\_  
Ray Stephanson, Mayor, or His Designee  
Date: \_\_\_\_\_

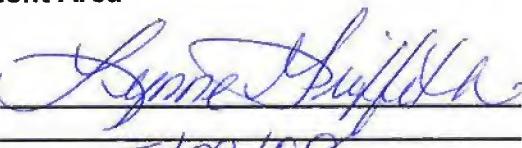
King County

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

ATTEST:

By: \_\_\_\_\_  
Sharon Marks, City Clerk  
Date: \_\_\_\_\_

Pierce County Public Transportation Benefit Area

By:   
Its: \_\_\_\_\_  
Date: 5/29/08

APPROVED AS TO FORM:

By: \_\_\_\_\_  
Everett City Attorney  
Date: \_\_\_\_\_

Kitsap County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Washington State Ferries, Washington State Department of Transportation

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Snohomish County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

IN WITNESS WHEREOF, the parties hereto have executed this Change Order No.32 to Contract #229944 as of the date set forth below its signature.

ERG Transit Systems (USA) Inc.

By: Lita  
Its: Vice President  
Date: 05/14/2008

The Agencies

By: \_\_\_\_\_  
Their: \_\_\_\_\_  
On behalf of the Agencies  
Date: \_\_\_\_\_

Central Puget Sound Regional Transit Authority

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

City of Everett

By: \_\_\_\_\_  
Ray Stephanson, Mayor, or His Designee  
Date: \_\_\_\_\_

King County

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

ATTEST:

By: \_\_\_\_\_  
Sharon Marks, City Clerk  
Date: \_\_\_\_\_

APPROVED AS TO FORM:

By: \_\_\_\_\_  
Everett City Attorney  
Date: \_\_\_\_\_

Pierce County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Kitsap County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Washington State Ferries, Washington State Department of Transportation

By: D. H. Murphy  
Its: Assistant Secretary, Ferries Division  
Date: 6/13/08

Snohomish County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

IN WITNESS WHEREOF, the parties hereto have executed this Change Order No.32 to Contract #229944 as of the date set forth below its signature.

ERG Transit Systems (USA) Inc.

By: Lita  
Its: Vice President  
Date: 05/14/2008

The Agencies

By: \_\_\_\_\_  
Their: \_\_\_\_\_  
On behalf of the Agencies  
Date: \_\_\_\_\_

Central Puget Sound Regional Transit Authority

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

City of Everett

By: Ray Stephanson  
Ray Stephanson, Mayor, or His Designee  
Date: 5/30/08

King County

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

ATTEST: Sharon Marks  
Sharon Marks, City Clerk  
Date: 5/30/08

Pierce County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

APPROVED AS TO FORM:  
Bob Goss  
Everett City Attorney  
Date: 5/29/08

Washington State Ferries, Washington State Department of Transportation

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Kitsap County Public Transportation Benefit Area

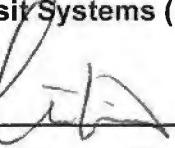
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Date: \_\_\_\_\_

Snohomish County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

IN WITNESS WHEREOF, the parties hereto have executed this Change Order No.32 to Contract #229944 as of the date set forth below its signature.

**ERG Transit Systems (USA) Inc.**

By:   
Its: Vice President  
Date: 05/14/2008

**The Agencies**

By: \_\_\_\_\_  
Their: \_\_\_\_\_  
On behalf of the Agencies  
Date: \_\_\_\_\_

**Central Puget Sound Regional Transit Authority**

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

**City of Everett**

By: \_\_\_\_\_  
Ray Stephanson, Mayor, or His Designee  
Date: \_\_\_\_\_

**King County**

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

**ATTEST:**

By: \_\_\_\_\_  
Sharon Marks, City Clerk  
Date: \_\_\_\_\_

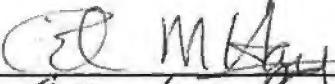
**APPROVED AS TO FORM:**

By: \_\_\_\_\_  
Everett City Attorney  
Date: \_\_\_\_\_

**Pierce County Public Transportation Benefit Area**

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

**Kitsap County Public Transportation Benefit Area** *Authority*

By:   
Its: Executive Director  
Date: 5/28/08

**Washington State Ferries, Washington State Department of Transportation**

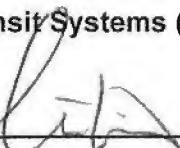
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Its: \_\_\_\_\_  
Date: \_\_\_\_\_

**Snohomish County Public Transportation Benefit Area**

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

IN WITNESS WHEREOF, the parties hereto have executed this Change Order No.32 to Contract #229944 as of the date set forth below its signature.

ERG Transit Systems (USA) Inc.

By:   
Its: Vice President  
Date: 05/14/2008

The Agencies

By: \_\_\_\_\_  
Their: \_\_\_\_\_  
On behalf of the Agencies  
Date: \_\_\_\_\_

Central Puget Sound Regional Transit Authority

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

City of Everett

By: \_\_\_\_\_  
Ray Stephanson, Mayor, or His Designee  
Date: \_\_\_\_\_

King County

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

ATTEST:

By: \_\_\_\_\_  
Sharon Marks, City Clerk  
Date: \_\_\_\_\_

APPROVED AS TO FORM:

By: \_\_\_\_\_  
Everett City Attorney  
Date: \_\_\_\_\_

Pierce County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

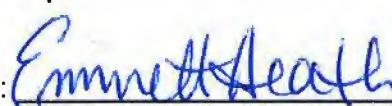
Kitsap County Public Transportation Benefit Area

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Washington State Ferries, Washington State Department of Transportation

By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Date: \_\_\_\_\_

Snohomish County Public Transportation Benefit Area

By:   
Its: Emmett Heath, Director of Administration  
Date: 6-12-08

**Change Order No. 32 - Attachment A**

**Amendment 28**

**to the**

**Contract for the Design, Implementation, Operation and Maintenance of the Regional Fare Coordination System**

This Amendment 28 to the Contract for the Design, Implementation, Operation and Maintenance of the Regional Fare Coordination System is entered into this \_\_\_\_ day of January, 2008, by and between ERG Transit Systems (USA) Inc, a California corporation and wholly owned subsidiary of ERG Limited, an Australian corporation, (hereinafter referred to as the "Contractor") and each of the following seven public transportation agencies (hereinafter referred to individually as an "Agency" or collectively as the "Agencies"):

1. Central Puget Sound Regional Transit Authority ("Sound Transit")
2. King County ("King County")
3. Kitsap County Public Transportation Benefit Area ("Kitsap Transit")
4. Pierce County Public Transportation Benefit Area ("Pierce Transit")
5. Snohomish County Public Transportation Benefit Area ("Community Transit")
6. City of Everett ("Everett")
7. State of Washington, acting through the Washington State Department of Transportation, Washington State Ferries Division ("WSF")

**Recitals**

- A. Effective April 29, 2003, each of the Agencies and the Contractor entered into Contract #229944 ("Contract") to implement a Regional Fare Coordination System ("RFC System") to establish a common fare system utilizing smart card technology. The Contractor is responsible for the development, implementation, operation and maintenance of the RFC System as specified in the Contract.
- B. This amendment is to add the fixed compensation due for the Contractor's Work performed under Change Order 32 related to implementation of King County's Full Integration Mode.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the sufficiency of which is hereby acknowledged, the Agencies and the Contractor hereby agree to amend the Contract as follows:

## **Section 1.0 Price Schedule**

Exhibit 9, Price Schedule, is amended by adding the following new Section XX, entitled, "King County Full Integration Mode," after Section XIX, "King County Radio Control Unit."

### **XX. KING COUNTY FULL INTEGRATION MODE**

Per Section 6.III-6.8.5 and Change Order 32      \$178,599

## **Section 2.0 Payment**

The amount added to the Price schedule shall be due and payable in accordance with the provisions of Change Order 32.